LUBEX ANTIFREEZE TSN

ENGINE COOLANT

PRODUCT DESCRIPTION

LUBEX ANTIFREEZE TSN is an engine coolant concentrate based on ethylene glycol that needs to be diluted with water before use. It contains a corrosion inhibitor package based on salts of organic acids and silicates (Hybrid Coolant).

LUBEX ANTIFREEZE TSN is free of nitrites, amines and phosphates.

APPLICATION/ USAGE

LUBEX ANTIFREEZE TSN is supplied in large quantity units for engines, cars and trucks. For preparation of the coolant it is recommended to use distilled or deionized water. In most cases tap water is also appropriate. The tap water content should not exceed 100 mg/kg chloride and 100 mg/kg sulphate ions. The water hardness should be between 0 to 2.7 mmol/L.

Before the first filling, drain the cooling system with the heating switched on and rinse thoroughly with warm and soft water. The mixture ratio of Antifreeze/water depends on the degree of frost resistance desired. Leave the engine running warm and check the condition of the liquid by means of antifreeze tester, an aerometer or a refractometer.

To refill, the required quantity of Antifreeze/water is simply added after checking the freezing resistance.

It should not be mixed with other brand or other colored antifreezes. It should be blended with water in a concentration amongst 33 to 60% by volume prior to infilling. The usage of a 50/50 ratio for the mixture of water and TSN is generally advisable.

ADVANTAGES/ BENEFITS

- LUBEX ANTIFREEZE TSN and water mixtures do not separate. They increase the boiling point of water and decrease the freezing point of the water / antifreeze mixture.
- It protects engines against overheating and frost damage.
- Contains effective inhibitors which offer protection from corrosion for the metals in the engine block and the radiator.
- Avoids deposits.
- Prevents cavitation on aluminum and cast-iron radiators due to special additives in the formulation.
- It does not foam due to the antifoam additives in the formulation.
- Due to its high heat conductivity it helps to cool the engine with success.
- It is compatible with elastomers used in seals, O-rings and gaskets.

SPECIFICATIONS

AS 2108-2004, ASTM D 3306, ASTM D 4985, SAE J1034, AFNOR NF R 15-601, ÖNORM V 5123, CUNA NC 956-16, JIS K 2234:2006, SANS 1251:2005, SH 0521-1999 and BS 6580:2010, BMW GS94000, Deutz DQC CA-14, Jenbacher TA-Nr. 1000-0201, MTU MTL 5048, Opel-GM B040 0240, Porsche 924, 928, 944, 968, Saab 6901599, VW / Audi / Seat / Skoda TL 774-C.

APPROVALS

MB-Approval 325.0
MAN 324-NF

STORAGE

Protect from direct sunlight and rain. Stored in originally closed, air-tight containers at temperatures of maximum 30°C.Do not use galvanized containers for storage.

HEALTH AND SAFETY

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application. Used or waste product should not be allowed to contaminate soil or water. Used or waste product should be disposed of in accordance with local regulations. For further guidance on product Health and Safety refer to the appropriate Material Safety Data Sheet.

03.2022.08.19

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TECHNICAL PROPERTIES	TEST VALUES	TEST METHOD
Appearance	Clear liquid	-
Density (20°C, g/ml)	1,121 – 1,123	DIN 51757
Refractive Index (nD_{20})	1,432 – 1,434	DIN 51423
Reserve Alkalinity (mL)	13 – 15	ASTM D 1121
pH Value	7,1 – 7,3	ASTM D 1287
Water Content (%)	3,5	ASTM D 1123
Boiling Point (min)	165	ASTM D 1120
Freezing Point (33 % antifreeze)	< -18	ASTM D 1177
Freezing Point (50 % antifreeze)	< -38	ASTM D 1177

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